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Family: FABACEAE-CAESALPINIOIDEAE (angiosperm)

Scientific name(s): Monopetalanthus spp.

Commercial restriction: no commercial restriction

Note: Frequently confused with EKABA (Tetraberlinia spp.)

WOOD DESCRIPTION

LOG DESCRIPTION

Color: pinkish brown Diameter: from 80 to 100 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 5 to 15 cm

Texture: medium Floats: yes

Grain: interlocked Log durability: low (must be treated)

Interlocked grain: marked

Note: Pink brown to red brown. Possible wind shakes.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	<u>Mean</u>	Std dev.	Mean Std dev.
Specific gravity *:	0,59	0,07	Crushing strength *: 48 MPa 8 MPa
Monnin hardness *:	3,0	0,7	Static bending strength *: 90 MPa 16 MPa
Coeff. of volumetric shrinkage:	0,46 %	0,11 %	Modulus of elasticity *: 14010 MPa 2615 MPa
Total tangential shrinkage (TS):	7,4 %	1,0 %	
Total radial shrinkage (RS):	4,0 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,9		
Fiber saturation point:	28 %		Musical quality factor: 109,1 measured at 2588 Hz
Stability:	moderately stable		

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NATURAL DURABILITY AND TREATABILITYFungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents.

E.N. = Euro Norm

Funghi (according to E.N. standards): class 5 - not durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 2 - moderately permeable
Use class ensured by natural durability: class 1 - inside (no dampness)

Species covering the use class 5: No

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment In case of risk of temporary humidification: requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

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DRYING

Drying rate: normal to slow Possible drying schedule: 6

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk Green 42 41 50 48 43 74 Risk of collapse: no 30 54 46 63 Note: Must be dried with care to avoid the risks of distortion 20 60 51 62 in case of highly interlocked grain. 15 60 51 62

This schedule is given for information only and is applicable to thickness lower or equal to 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm, the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm, a 10 % increase should be considered.

SAWING AND MACHINING

Blunting effect: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary
Peeling: good
Slicing: nood

Note: Some difficulties in presence of highly interlocked grain. Tendency to woolliness.

ASSEMBLING

Nailing / screwing: good
Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)

For the "General Purpose Market":

Possible grading for square edged timbers: choix I, choix II, choix IV

Possible grading for short length lumbers: choix I, choix II
Possible grading for short length rafters: choix I, choix II, choix III

For the "Special Market":

Possible grading for strips and small boards (ou battens): choix I, choix II, choix III

Possible grading for rafters: choix I, choix II, choix III

FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)

Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm.

END-USES

Veneer for interior of plywood

Interior joinery Boxes and crates Light carpentry Formwork

Flooring

Veneer for back or face of plywood

Interior panelling

Current furniture or furniture components

Exterior joinery Stairs (inside) Sliced veneer ANDOUNG Page 3/4

MAIN LOCAL NAMES

CountryLocal nameCameroonEKOP-MAYOGabonANDOUNGEquatorial GuineaANDJUNGFranceN'DOUMA

Country
Cameroon
Gabon
Equatorial Guinea

Local name ZOELE N'DOUMA EKOP



